



State of Utah

GARY R. HERBERT
Governor

GREG BELL
Lieutenant Governor

Department of
Environmental Quality

Amanda Smith
Executive Director

DIVISION OF AIR QUALITY
Cheryl Heying
Director

m/045/0008
cc: Leslie

DAQE-NN0107160043-10

December 28, 2010

Tooele Transcript
Legal Advertising Dept.
58 N Main
Tooele, UT 84074

RE: Legal Notice of Intent to Approve

This letter will confirm the authorization to publish the attached NOTICE in the Tooele Transcript on December 30, 2010.

Please mail the invoice and affidavit of publication to the Utah State Department of Environmental Quality, Division of Air Quality, P.O. Box 144820, Salt Lake City, Utah 84114-4820.
Sincerely,

Kimberly Wilcox
Office Technician
Utah Division of Air Quality

Enclosure

cc: Wasatch Front Regional Council
Tooele County

NOTICE

A Notice of Intent for the following project submitted in accordance with §R307-401-1, Utah Administrative Code (UAC), has been received for consideration by the Executive Secretary, Utah Air Quality Board:

Company Name: US Magnesium LLC

Location: US Magnesium LLC: Rowley Plant – 12819 N. Skull Valley Road, 15 Miles North Exit 77, I-80, Rowley, UT, Tooele County

Project Description: US Magnesium LLC operates a primary magnesium refinery at their Rowley plant. The Rowley plant is currently operating in the attainment area of Tooele County as a PSD major source. In the magnesium casting operations, sulfur hexafluoride (SF6) and CO₂ are used as a cover gas to prevent the molten magnesium from reacting with the atmosphere. SF6 and CO₂ are greenhouse gases and US Magnesium LLC is requesting approval to replace the use of SF6/CO₂ mixture as a cover gas with an SO₂/air mixture. One ton of SF6 emissions is equal to 23,900 tons of CO₂. The 15 Tons Per Year (TPY) reduction in SF6 emission is equal to 358,500 tons of CO₂ emissions. The SO₂ emissions will be controlled by a packed bed, wet scrubber.

Maximum Achievable Control Technology (MACT) regulations apply to the US Magnesium plant. The Rowley plant is a major source and, therefore, is subject to the Operating Permit Requirements in the 1990 Clean Air Act. The Title V operating permit for this source shall be amended prior to the implementation of the requested modifications. The SO₂ TPY emissions will increase by 1.10 TPY. The changes in emissions will result in the following TPY potential to emit totals: PM₁₀ (PM_{2.5}) = 1,438.18, NO_x (NO₂) = 1,518.00, SO₂ = 35.84, CO = 83.56, VOC = 200.10 and HAPs = 4,360.70.

The completed engineering evaluation and air quality impact analysis showed that the proposed project meets the requirements of federal air quality regulations and the State air quality rules. The Executive Secretary intends to issue an Approval Order pending a 30-day public comment period. The project proposal, estimate of the effect on local air quality and draft Approval Order are available for public inspection and comment at the Utah Division of Air Quality, 195 North 1950 West, Salt Lake City, UT 84116. Written comments received by the Division at this same address on or before January 29, 2011 will be considered in making the final decision on the approval/disapproval of the proposed project. Email comments will also be accepted at nmeli@utah.gov. If anyone so requests to the Executive Secretary at the Division in writing within 15 days of publication of this notice, a hearing will be held in accordance with R307-401-7, UAC.

Date of Notice: December 30, 2010